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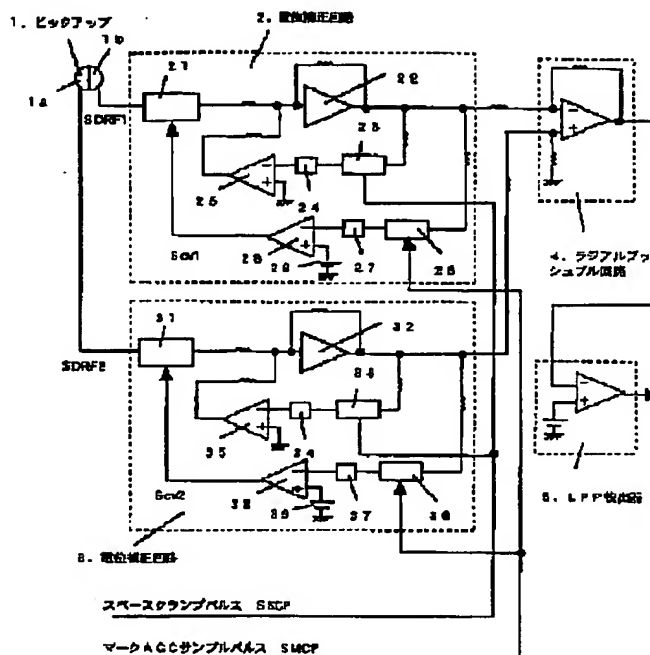
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APPLICANT : PIONEER ELECTRONIC CORP;

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TITLE : PRE-PIT DETECTOR



ABSTRACT : **PROBLEM TO BE SOLVED:** To extract accurate land pre-pit by obtaining a couple of read signals which are optically split in the parallel portions for the tangent direction of the track and extracting a difference of the compensated read signal which is matched in the potential of the unrecorded portion with the recorded portion.

SOLUTION: A predetermined mark AGC sample pulse and space section clamp pulse are generated and these pulses are applied to the sample hold circuits 23, 26 or 33, 36 of the potential compensation circuit. Thereby, the voltage V1 of the space section is fixed to 0 V and the voltage V2 of the mark section to the predetermined potential respectively. Thereby, amplitude difference between the mark and space of a couple of split RF signals SDRF1, SDRF2 can be balanced. Only the RF signal element is canceled by inputting a couple of RF signal outputs output via each potential compensation circuit to a radial push-pull circuit 4 and thereby stable LPP can be extracted.

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